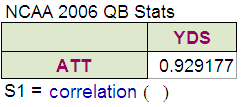
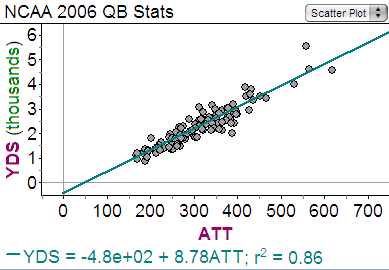
**Chapter 4 on FATHOM**

1. **Creating Scatterplots**

* Drag down a GRAPH
* Drag the X-Variable to the X-axis, then drag the Y-Variable to the Y-Axis

1. **Finding Correlation (r)**

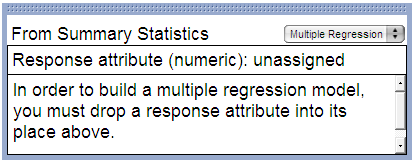
* Drag down a SUMMARY table
* Drag the X-Variable to the left side of the table, then drag the Y-Variable to the top of the table
* Always round all numbers to 3 decimal places!!

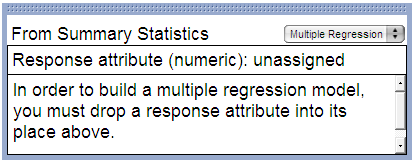


1. **Adding the LSRL to the plot**

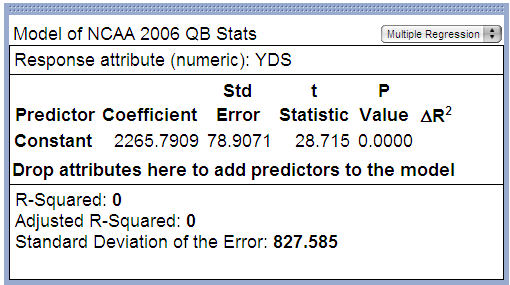
* First, create a scatterplot
* Click on the scatterplot so it is highlighted (there is a blue border around it)
* Go to the GRAPH menu
* Click on “Least Squares Line”
* You will see the line on the plot now. You will also see the line at the bottom of the graph- DO NOT USE THIS VERSION OF THE LINE



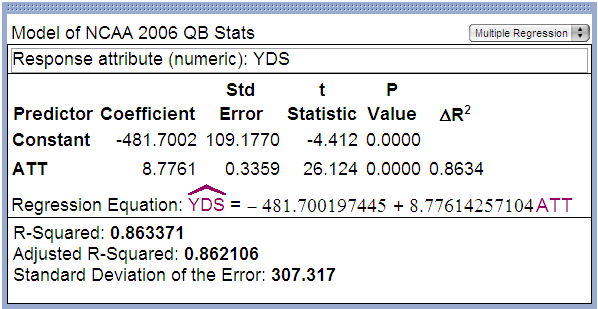
1. **Finding the equation of the LSRL**

* Drag down a MODEL
* Change the type (in the top right corner) to “Multiple Regression”
* Click on the “MODEL” menu at the top of the page
* Click on “Hide Sequential Contributions chart”
* Click on the “MODEL” menu again, and then click on “Hide ANOVA table”
* Drag the Y-variable to the top, where it says

“Response attribute (numeric): unassigned”

* Drag the X-Variable to the top middle, where it says

“Drop attributes here to add predictors to the model”

* You will then see a lot of data analysis like this:
* LSR line- round the slope and Y-Intercept to 3 decimal places

Example from above: YDS = -481.700 + 8.776(ATT)

1. **Creating the residual plot**

* Create the scatterplot, and then put the LSRL on the plot (#3 above)
* Make sure the graph is highlighted (there is a blue box around it)
* Click on the “Graph” menu, then click on “Make Residual Plot”
* You will see the residual plot below the scatterplot graph
* Make the graphs much bigger so that you can see the residual plot and scatterplot better
* When you want to copy this to Power Point or Word, use the snipping tool below-

You should copy the residual plot alone, not with the scatterplot

Use the snipping tool to select just the Residual Plot and copy that separately from the scatterplot

1. **Using the “Snipping tool” to copy things from Fathom**

* Click on the WINDOWS icon (bottom left corner of your computer screen
* Click on “All Programs 🡪”
* Find the Snipping tool, and click on it so it opens
* You will see the screen go gray, and then your mouse will turn into a “**+**”
* Use the mouse to “highlight” whatever it is you want to copy.
* You will then see the image you highlighted. Copy this (CTRL + C) and then go to your document (Word or Power Point) and paste the image (CTRL + V).